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APPLICATION NO.	Fil	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET N	O. CONFIRMATION NO.	
10/663,606	3,606 09/16/2003		Jacey Robert Beaucage	HSJ920030185US2	3542	
28722	7590	08/12/2004		E.	EXAMINER	
BRACEW	ELL & PA	TTERSON, L	MCDONA	ALD, SHANTESE L		
P.O. BOX 9	69				<del>-  </del>	
AUSTIN, T	X 78767-	0969	ART UNIT	PAPER NUMBER		
,				3723		

DATE MAILED: 08/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		$\mathcal{A}$					
	Application No.	Applicant(s)					
	10/663,606	BEAUCAGE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Shantese L. McDonald	3723					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM							
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period value of the period of the perio	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS from the application to become ABANDON to the country of the status of the application to become ABANDON to the application to become ABANDON to the status of the application to become ABANDON to the status of the application to become ABANDON to the status of the status	timely filed  ays will be considered timely.  m the mailing date of this communication.  IED (35 U.S.C. § 133).					
Status		•					
1) Responsive to communication(s) filed on 16 Section 1	eptember 2003.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar	·						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-16 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5) Claim(s) is/are allowed.		·					
6) Claim(s) <u>1-4,8,10,11 and 16</u> is/are rejected.	6) Claim(s) <u>1-4,8,10,11 and 16</u> is/are rejected.						
7) Claim(s) <u>5-7,9 and 12-15</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Oce the attached detailed Office action for a list	or the certified copies flot receiv	Gu.					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summar	v (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/16/03.	5) Notice of Informal 6) Other:	Patent Application (PTO-152)					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,2,4 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Kojima et al.

Kojima et al. teaches a method of predicting the lapping property comprising positioning a tool, 6, on a lapping plate, 10, charging the lapping plate with abrasive, (col. 2, line 56-57), rotating the lapping plate, restraining the tool relative to the lapping plate, measuring a frictional force between the tool and the lapping plate, measuring a consumption of the tool by the lapping plate and determining a lapping rate of the lapping plate, (col. 4, lines 15-37), and rotating the lapping plate for a specific time, determinging the lapping rate over a time interval and assessing the lapping rate and friction, (col. 5, line 28- col. 6, line 57).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima et al. in view of Zhang et al.

Kojima et al. teaches all the limitations of the claims except for calculating a coefficient of friction and a Preston coefficient of the lapping plate. Zhang et al. teaches calculating a coefficient of friction and a Preston coefficient of the lapping plate, (col. 6, lines 51- col. 7, line 37). It would have been obvious to one having ordinary skill in the art at the time the invention was made, to calculate the coefficient of friction and a Preston coefficient of the lapping plate of Kojima et al., since the method of Kojima et al., is relating to determining a lapping rate.

Claims 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima as modified by Zhang, in further view of Miyamoto.

Kojima as modified by Zhang teaches all the limitations of the claims except for using a strain gage to measure friction. Miyamoto teaches using a strain gage to measure friction, (col. 17, lines 1-3). It would have been obvious to one having ordinary skill in the art at the time the invention was made, to provide the invention of Kojima as modified by Zhang, with a strain gage in order to measure the friction between the tool and the lapping plate.

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### Allowable Subject Matter

Claims 5-7,9 and 12-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Molnar was cited to show another example of a lapping method

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese L. McDonald whose telephone number is (703) 308-8722. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on (703) 308-2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph J. Hail, III Supervisory Patent Examiner Technology Center 3700

S.L.M.

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August 6, 2004

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